

Contents

Volume 241 (1990)

Research Papers

Induction of micronuclei in <i>Vicia faba</i> root tips treated in different soils with the herbicide alachlor A. De Marco, P. Boccardi, C. De Simone, A. Piccolo, M. Raglione, A. Testa and S. Trinca (Italy)	1
Use of rat primary lung cells for studying genotoxicity with the sister-chromatid exchange and micronucleus assays W.-Z. Whong, J.D. Stewart and T. Ong (U.S.A.)	7
Chromosomal aberrations and sister-chromatid exchanges in lymphocytes of workers exposed to sulphur dioxide Z. Meng and L. Zhang (Great Britain, China)	15
Prediction of carcinogenic potency from toxicological data C.C. Travis, S.A. Richter Pack, A.W. Saulsbury and M.W. Yambert (U.S.A.)	21
A comparison of DNA adduct formation in white blood cells and internal organs of mice exposed to benzo[a]pyrene, dibenzo[c,g]carbazole, safrole and cigarette smoke condensate M.V. Reddy and K. Randerath (U.S.A.)	37
Botran and bleomycin induce crossing-over, and bleomycin also increases aneuploidy in diploid strains of <i>Aspergillus</i> E. Käfer (Canada)	49
Chromosome damage in rat pulmonary alveolar macrophages following ozone inhalation K. Rithidech, J.A. Hotchkiss, W.C. Griffith, R.F. Henderson and A.L. Brooks (U.S.A.)	67
Indirect mechanism of lead-induced genotoxicity in cultured mammalian cells A. Hartwig, R. Schlegel and D. Beyersmann (F.R.G.)	75
Genotoxicity of benzo[a]pyrene, 2-nitrofluorene and airborne particulates in the DNA-repair host-mediated assay G.A.H. Heussen, J.G. Post and G.M. Alink (The Netherlands)	83
Influence of treatment to sacrifice time and the presence of BrdUrd on chemically-induced aberration rates in mouse marrow cells A.F. McFee and R.R. Tice (U.S.A.)	95
A comparison of SCE test in human lymphocytes and <i>Vicia faba</i> : a hopeful technique using plants to detect mutagens and carcinogens W. Xing and Z. Zhang (China)	109
Induction of micronucleated and binucleate cells in Chinese hamster ovary (CHO) cells by <i>cis</i> -diamminedichloroplatinum (II): a morphological and morphometric study V. Rodilla, J.A. Pellicer, J. Pertusa and C. Mothersill (Ireland, Spain)	115
Mutagenicity of 3- <i>tert</i> -butyl-4-hydroxyanisole (BHA) and its metabolites in short-term tests in vitro A. Matsuoka, M. Matsui, N. Miyata, T. Sofuni and M. Ishidate Jr. (Japan)	125
Mouse bone marrow cytogenetic damage produced by residues of tequila E. Madrigal-Bujaidar, A. Rojas C., A. Ramos C., E. Rosas P. and S. Díaz Barriga-Arceo (Mexico)	133
Mutagenicity evaluation of HC Blue No. 1 and HC Blue No. 2, I. Effect on the induction of micronuclei in mouse bone marrow cells J.W. Parton, J.E. Beyers and M.L. Garriott (U.S.A.)	139
Mutagenicity evaluation of HC Blue No. 1 and HC Blue No. 2, II. Effect on the in vitro induction of unscheduled DNA synthesis in rat, mouse, rabbit, hamster, and monkey primary hepatocytes L.E. Hill, J.W. Parton, G.S. Probst and M.L. Garriott (U.S.A.)	145
Mutagenicity evaluation of HC Blue No. 1 and HC Blue No. 2, III. Effects in the <i>Salmonella typhimurium</i> / <i>Escherichia coli</i> reversion assay and the mouse lymphoma L5178Y TK ⁺ forward mutation assay T.J. Oberly, A.J. Kokkino, B.J. Bewsey and K.K. Richardson (U.S.A.)	151
Evaluation of genotoxicity of clofazimine, an antileprosy drug, in mice in vivo. I. Chromosome analysis in bone marrow and spermatocytes R.K. Das and B. Roy (India)	161
Evaluation of genotoxicity of clofazimine, an antileprosy drug, in mice in vivo. II. Micronucleus test in bone marrow and hepatocytes B. Roy and R.K. Das (India)	169
A comparison of chromosome aberration induction by 25 compounds tested by two Chinese hamster cell (CHL and CHO) systems in culture T. Sofuni, A. Matsuoka, M. Sawada, M. Ishidate Jr., E. Zeiger and M.D. Shelby (Japan, U.S.A.)	175

Sister-chromatid exchanges in lymphocytes from styrene-exposed boat builders K.T. Kelsey, T.J. Smith, S.K. Hammond, R. Letz and J.B. Little (U.S.A.)	215
<i>Announcement</i>	223
<i>Research Papers</i>	
Detection of induced mitotic chromosome loss in <i>Saccharomyces cerevisiae</i> – An interlaboratory assessment of 12 chemicals S.G. Whittaker, F.K. Zimmermann, B. Dicus, W.W. Piegorsch, M.A. Resnick and S. Fogel (U.S.A., F.R.G.)	225
Cytogenetic investigation in lymphocytes of people living in cadmium-polluted areas X.-M. Tang, X.-Q. Chen, J.-X. Zhang and W.-Q. Qin (China)	243
Clastogenic activity in urine of workers occupationally exposed to pesticides R.H. See, B.P. Dunn and R.H.C. San (Canada)	251
Salmonella mutagenicity and rodent carcinogenicity: Quantitative structure-activity relationships B.W. Blake, K. Enslein, V.K. Gombar and H.H. Borgstedt (U.S.A.)	261
Baseline and phosphoramidate mustard-induced sister-chromatid exchanges in cancer patients treated with cyclophosphamide M.A. McDiarmid, P.T. Strickland, K. Kolodner, J. Hansen and D. Jacobson-Kram (U.S.A.)	273
Elevated frequencies of micronuclei in cultured fibroblasts after freezing and thawing U. Schmidt-Preuss, M. Roser, M. Weichenthal and H.W. Rüdiger (F.R.G.)	279
Mechanism of antimutagenicity of aquatic plant extracts against benzo[a]pyrene in the Salmonella assay T. Sato, Y. Ose, H. Nagase and H. Kito (Japan)	283
Cytogenetic monitoring of chemical workers in production of the drug 1-propoxy-2-acetamino-4-nitrobenzol with reference to their smoking habits B. Tanner, J. Schöneich, E. Hüttner and V. Steinbicker (G.D.R.)	291
The effect of the pyrrolizidine alkaloid integerrimine on the chromosomes of mouse bone marrow cells M.C. Gimmmler-Luz, B. Erdtmann and R.A. Balbueno (Brazil)	297
Modification of clastogenicity of lead and aluminium in mouse bone marrow cells by dietary ingestion of <i>Phyllanthus emblica</i> fruit extract H. Dhir, A.K. Roy, A. Sharma and G. Talukder (India)	305
Studies on the potential mutagenicity of <i>p</i> -phenylenediamine in oxidative hair dye mixtures M. Bracher, C. Faller, W. Grötsch, R. Marshall and J. Spengler (Switzerland, F.R.G., U.K.)	313
A Nordic data base on somatic chromosome damage in humans Nordic Study Group on the Health Risk of Chromosome Damage	325
<i>Series: 'Current Issues in Mutagenesis and Carcinogenesis', No. 21</i>	
<i>Letter to the Editor</i>	
Genotoxic effects of fluoride G.E. Smith (Australia)	339
<i>Research Papers</i>	
Genetic effects of hyperbaric oxygen therapy E.P. Guskov, T.P. Shkurat, E.I. Shimanskaja and S.I. Guskova (U.S.S.R.)	341
Evaluation of the mutagenicity of 'pan masala', a chewing substitute widely used in India A.N. Bagwe, U.K. Ganu, S.V. Gokhale and R.A. Bhisey (India)	349
Acrylonitrile-induced sister-chromatid exchanges and DNA single-strand breaks in adult human bronchial epithelial cells C.-M. Chang, M.T.S. Hsia, G.D. Stoner and I.-C. Hsu (U.S.A.)	355
Unscheduled DNA synthesis in rat pleural mesothelial cells treated with mineral fibres A. Renier, F. Lévy, F. Pilière and M.C. Jaurand (France)	361
Mutagenic and recombinogenic consequences of DNA-repair inhibition during treatment with 1,3-bis(2-chloroethyl)-1-nitrosourea in <i>Saccharomyces cerevisiae</i> L.R. Ferguson (New Zealand)	369
Evaluation of genotoxicity of <i>N</i> -nitrosodibenzylamine in Chinese hamster V79 cells and in Salmonella B.G. Boyes, C.G. Rogers, T.I. Matula, R. Stapley and N.P. Sen (Canada)	379
The effect of retinoids, carotenoids and phenolics on chromosomal instability of bovine papillomavirus DNA-carrying cells H.F. Stich, S.S. Tsang and B. Palcic (Canada)	387
<i>Announcement</i>	395
<i>Corrigendum</i>	395
<i>Contents, Vol. 241 (1990)</i>	397

